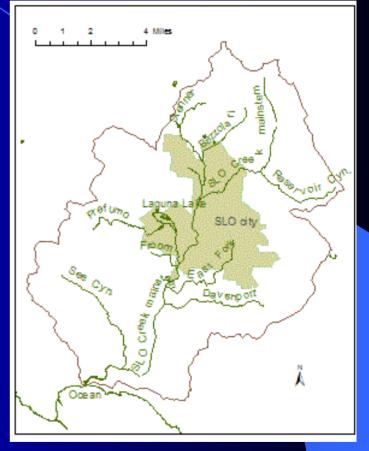
San Luis Obispo Creek TMDL For Nitrate-nitrogen

Agenda Item 8

Presented by Michael Buckman

Overview

- Intro
- Target
- Source Analysis
- Allocations
- Implementation
- Issues

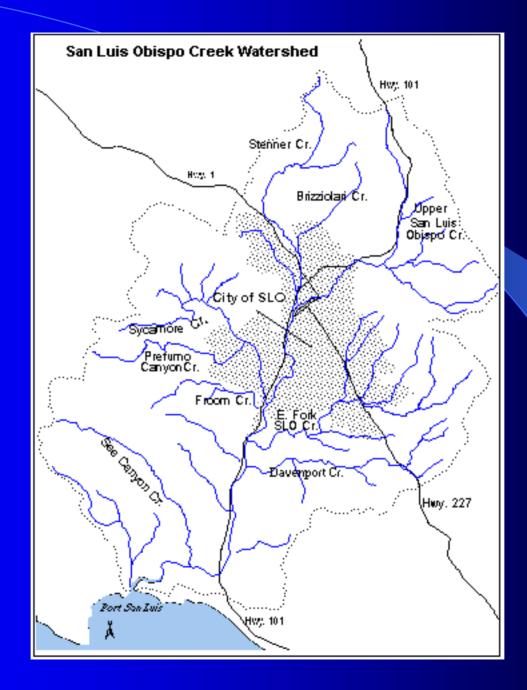




- 1994 303(d) listing: Nutrients
- Impairment: Nitrate (NO₃)
- Water Quality Objective: 45mg/L-NO₃
- Impairing: Municipal and Domestic Supply (MUN)

TMDL Target

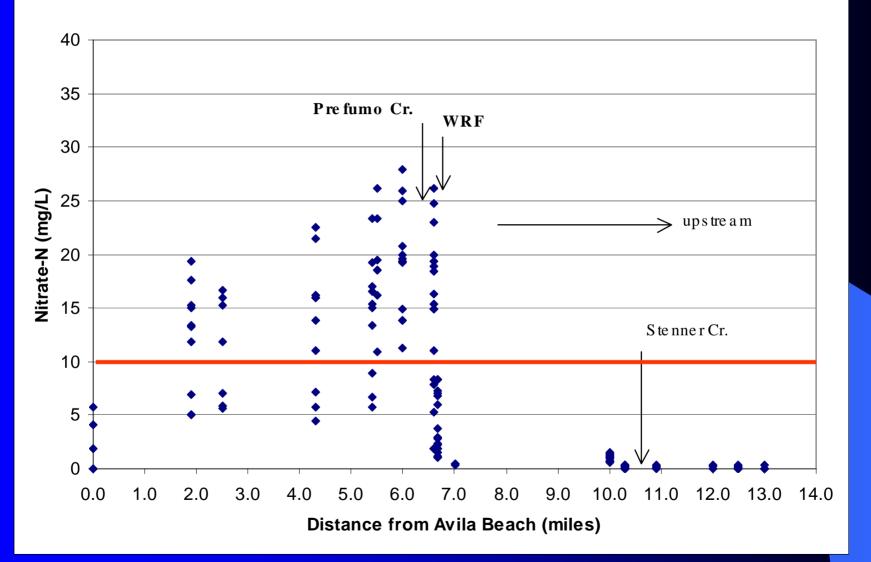
- Water Quality Objective = Numeric Target
- 45 mg/L-NO₃ = 10 mg/L-N
- Numeric target: 10 mg/L-N
- Nitrate as NO_3 N vs. Nitrate as NO_3 NO_3
 - Identical analysis
 - NO₃- N More common reference
 - Different Unit of Measure ie Miles-Meters



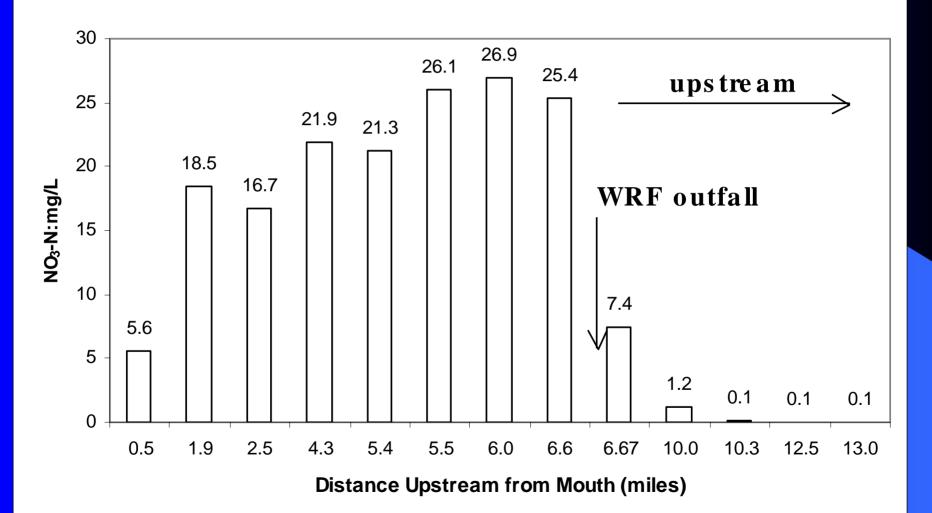
Source Analysis

- Exceedance of numeric target downstream of WRF outfall and Prefumo Creek tributary.
- Decreasing order of nitrate-N contribution
 - Water Reclamation Facility
 - Croplands
 - Background
 - Reservoirs
 - Residential

Nitrate f(Distance upstream) from March 2001 to April 2002



San Luis Obispo Creek Average: Average Nitrate Levels for Sept/Oct 2000 and 2001



Allocations

- WRF effluent limit:
 Monthly mean nitrate-N ≤ 10 mg/L-N
 Croplands receiving water allocation:
 Discharge shall not cause nitrate to exceed 10 mg/L-N
- Other sources (urban sources, reservoirs, background):
 - Equal to current loading

Implementation

Water Reclamation Facility
NPDES permit

May 2007

Addition of effluent limit

Cease and Desist

• Time Schedule (life of permit)

Implementation (Cont.)

- Croplands
 - Conditional Waiver for Irrigated Lands
- Urban Sources (incl. residential)
 - Currently meeting allocation
 - Stormwater permits







Questions





